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1	US 20050041763 A1	20050224	37	Unblind equalizer architecture for digital communication systems	375/350	
2	US 20050041758 A1	20050224	39	Holographic ranging apparatus and methods	375/316	
3	US 20050041757 A1	20050224	40	Frequency-hopped holographic communications apparatus and methods	375/295	
4	US 20050041756 A1	20050224	39	Real domain holographic communications apparatus and methods	375/295	
5	US 20050041752 A1	20050224	39	Pulse-shaped holographic communications apparatus and methods	375/268	375/130; 375/259
6	US 20050031051 A1	20050210	39	Multiple access holographic communications apparatus and methods	375/295	375/141; 375/146; 375/147; 375/316
7	US 20050031045 A1	20050210	19	Methods and apparatus for synchronously combining signals from plural transmitters	375/260	
8	US 20050031016 A1	20050210	39	Epoch-variant holographic communications apparatus and methods	375/130	
9	US 20050002440 A1	20050106	147	Vertical adaptive antenna array for a discrete multitone spread spectrum communications system	375/141	
10	US 20040264574 A1	20041230	15	Method and apparatus for transferring video frame in telecommunication system	375/240.16	375/240.24
11	US 20040196893 A1	20041007	50	Receiver for wireless telecommunication stations and method	375/148	
12	US 20040184521 A1	20040923	41	Equalizers for layered modulated and other signals	375/231	375/350
13	US 20040161064 A1	20040819	119	System and method for processing signals in UWB communications	375/347	
14	US 20040161057 A1	20040819	22	Communication receiver with a rake-based adaptive equalizer	375/340	375/350

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1	Wang, Weizheng W. et al.
2	Rosen, Lowell
3	Rosen, Lowell et al.
4	Rosen, Lowell
5	Rosen, Lowell
6	Rosen, Lowell et al.
7	Mayor, Michael A. et al.
8	Rosen, Lowell
9	Alamouti, Siavash et al.
10	Lainema, Jani
11	Oh, Hyun Seok et al.
12	Chen, Ernest C. et al.
13	Brethour, Vernon R. et al.
14	Malladi, Durga Prasad et al.

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15	US 20040161029 A1	20040819	22	Communication receiver with an adaptive equalizer length	375/232	
16	US 20040141550 A1	20040722	56	Reduced SNR handshake signaling in ADSL systems	375/220	370/430
17	US 20040125878 A1	20040701	28	Source coding enhancement using spectral-band replication	375/242	
18	US 20040110469 A1	20040610	90	Repeaters for wireless communication systems	455/15	370/315; 375/211; 455/276.1; 455/562.1; 455/7
19	US 20040071200 A1	20040415	28	System for direct acquisition of received signals	375/152	
20	US 20040071198 A1	20040415	46	Code detection	375/148	
21	US 20040042569 A1	20040304	13	Method and apparatus to provide communication protection technology for satellite earth stations	375/346	
22	US 20040032909 A1	20040219	18	Reference symbol multicarrier signal designed to limit intersymbol interference	375/261	
23	US 20040028121 A1	20040212	60	Receiver processing systems	375/144	375/148
24	US 20040017867 A1	20040129	26	INTERFERENCE CANCELLATION IN A SIGNAL	375/346	
25	US 20040017843 A1	20040129	59	Receiver processing systems	375/148	
26	US 20030235245 A1	20031225	43	Method and system for computing pre-equalizer coefficients	375/232	375/233
27	US 20030231700 A1	20031218	148	Vertical adaptive antenna array for a discrete multitone spread spectrum communications system	375/144	

	Inventor
15	Malladi, Durga Prasad et al.
16	Duvaut, Patrick et al.
17	Liljeryd, Lars Gustaf et al.
18	Judd, Mano D. et al.
19	Betz, John et al.
20	Lomp, Gary et al.
21	Casabona, Mario M. et al.
22	Gonzalez, Alberto et al.
23	Fitton, Michael P.
24	Thomas, John K. et al.
25	Fitton, Michael Philip et al.
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28	US 20030202612 A1	20031030	44	Method and system for rate enhanced SHDSL	375/265	
29	US 20030198280 A1	20031023	12	Wireless local area network frequency hopping adaptation algorithm	375/132	
30	US 20030193991 A1	20031016	13	Fixed frequency transceiver for use in a frequency hopping system	375/133	
31	US 20030174764 A1	20030918	28	Radio frequency communication network having adaptive communication parameters	375/220	
32	US 20030161411 A1	20030828	74	Ultra wide bandwidth communications method and system	375/295	
33	US 20030161410 A1	20030828	31	Rádio communications device with adaptive combination	375/267	375/347
34	US 20030156664 A1	20030821	27	Synthesizing coherent correlation sums at one or multiple carrier frequencies using correlation sums calculated at a coarse set of frequencies	375/343	
35	US 20030152167 A1	20030814	51	Receiver for wireless telecommunication stations and method	375/326	375/372
36	US 20030152145 A1	20030814	51	Crash prevention recorder (CPR)/video-flight data recorder (V-FDR)/cockpit-cabin voice recorder for light aircraft with an add-on option for large commercial jets	375/240.12	348/117; 348/144
37	US 20030133497 A1	20030717	21	Incremental redundancy using two stage rate matching for automatic repeat request to obtain high speed transmission	375/152	
38	US 20030133496 A1	20030717	36	Orthogonal chirp modulation in multipath environments	375/139	375/259
39	US 20030112901 A1	20030619	17	Method and apparatus for determining the log-likelihood ratio with precoding	375/340	

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28	Halder, Bijit et al.
29	Wang, John Z. et al.
30	Lansford, James L.
31	Mahany, Ronald L.
32	McCorkle, John W. et al.
33	Smith, Martin et al.
34	Sahai, Anant et al.
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40	US 20030112887 A1	20030619	54	Method and system for implementing weighted vector error echo cancellers	375/285	375/232
41	US 20030112861 A1	20030619	52	Method and system for adaptively training time domain equalizers	375/232	375/348; 375/350
42	US 20030112860 A1	20030619	54	Method and system for shortening channel impulse response using time domain equalization filter	375/229	
43	US 20030112857 A1	20030619	12	Apparatus and method for detecting pilot channel signals with low signal-to-noise	375/152	
44	US 20030091107 A1	20030515	15	Receiver for a spread spectrum system	375/150	
45	US 20030086515 A1	20030508	196	Channel adaptive equalization precoding system and method	375/346	
46	US 20030086514 A1	20030508	27	Dynamic digital communication system control	375/346	
47	US 20030072384 A1	20030417	12	Method and system for reduction of decoding complexity in a communication system	375/295	375/340
48	US 20030043925 A1	20030306	25	Method and system for detecting, timing, and correcting impulse noise	375/254	
49	US 20030043887 A1	20030306	29	Communication system and methods of estimating channel impulse responses therein	375/144	
50	US 20030016770 A1	20030123	195	Channel equalization system and method	375/346	
51	US 20020186799 A1	20021212	20	Method and apparatus for adjusting the gain of an if amplifier in a communication system	375/345	
52	US 20020176485 A1	20021128	21	Multi-cast communication system and method of estimating channel impulse responses therein	375/144	375/260; 375/340
53	US 20020159506 A1	20021031	148	Vertical adaptive antenna array for a discrete multitone spread spectrum communications system	375/147	

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40	Sang, Tzu Hsien et al.
41	Erdogan, Alper Tunga et al.
42	Erdogan, Alper Tunga
43	Cleveland, Joseph Robert
44	Lobo, Natividade Albert et al.
45	Trans, Francois et al.
46	Ginis, Georgios et al.
47	Chen, Tao et al.
48	Stopler, Danny et al.
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54	US 20020146080 A1	20021010	20	Pulse transmission transceiver architecture for low power communications	375/316	
55	US 20020141478 A1	20021003	146	Apparatus for initial power control for spread-spectrum communications	375/130	
56	US 20020126774 A1	20020912	26	Receiving apparatus, receiving method, program and information recording medium	375/340	
57	US 20020122465 A1	20020905	179	Highly bandwidth-efficient communications	375/141	
58	US 20020122437 A1	20020905	34	Method and apparatus for coordinating multi-point to point communications in a multi-tone data transmission system	370/509	375/222
59	US 20020101907 A1	20020801	22	Adaptive antenna optimization network	375/132	375/297
60	US 20020097821 A1	20020725	14	Receiver of wideband digital signal in the presence of a narrow and interfering signal	375/346	
61	US 20020097790 A1	20020725	20	Pulse transmission transceiver architecture for low power communications	375/219	
62	US 20020086707 A1	20020704	16	Wireless communication system using block filtering and fast equalization-demodulation and method of operation	455/561	370/321; 370/326; 375/229
63	US 20020080889 A1	20020627	20	Pulse transmission transceiver architecture for low power communications	375/295	
64	US 20020075941 A1	20020620	17	Multiple access frequency hopping network with interference anticipation	375/133	
65	US 20020061054 A1	20020523	17	Method and apparatus for acquiring slot timing and frequency offset correction and storage medium storing control program therefor	375/149	375/150
66	US 20020061050 A1	20020523	146	Method for initial power control for spread-spectrum communications	375/141	370/342

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54	Dress, William B. JR. et al.
55	Ozluturk, Fatih M. et al.
56	Harada, Hiroshi et al.
57	Agee, Brian G. et al.
58	Cioffi, John M. et al.
59	Dent, Paul W. et al.
60	Hebron, Yoav et al.
61	Dress, William B. JR. et al.
62	Struhsaker, Paul F. et al.
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67	US 20020051486 A1	20020502	17	Process for receiving spread-spectrum signals	375/150	
68	US 20020051482 A1	20020502	146	Median weighted tracking for spread-spectrum communications	375/141	370/342
69	US 20020044612 A1	20020418	11	Interleaving method and system	375/295	
70	US 20020044600 A1	20020418	59	Spectral encoding of information	375/240	
71	US 20020036998 A1	20020328	147	Adaptive vector correlator for spread-spectrum communications	370/342	375/140
72	US 20020027957 A1	20020307	18	Method and wireless communications systems using coordinated transmission and training for interference mitigation	375/267	455/447
73	US 20020027946 A1	20020307	147	Method for adaptive reverse power control for spread-spectrum communications	375/130	375/141
74	US 20020021686 A1	20020221	147	System for using rapid acquisition spreading codes for spread-spectrum communications	370/342	375/140
75	US 20010055352 A1	20011227	38	Process and system for information transfer	375/348	
76	US 20010050943 A1	20011213	27	Radio frequency communication network having adaptive communication parameters	375/130	
77	US 20010002919 A1	20010607	23	Flexible sliding correlator for direct sequence spread spectrum systems	375/150	
78	US 6859463 B1	20050222	20	Methods and apparatus for organizing selection of operational parameters in a communication system	370/445	370/252; 370/328; 370/338; 375/141; 455/434; 709/241; 709/243

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67	Aue, Volker
68	Lomp, Gary R.
69	Sipola, Jussi
70	Scheirer, Erik K. et al.
71	Lomp, Gary R.
72	Paulraj, Arogyaswami J. et al.
73	Ozluturk, Fatih M. et al.
74	Ozluturk, Fatih M. et al.
75	Bannasch, Rudolf et al.
76	Mahany, Ronald L.
77	Sourour, Essam et al.
78	Mayor; Michael A. et al.

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79	US 6839429 B1	20050104	85	Spectral optimization for communication under a peak frequency-domain power constraint	379/417	370/201; 375/296; 379/282; 379/286; 379/416; 379/93.01
80	US 6831562 B2	20041214	64	Object identification system with adaptive transceivers and methods of operation	340/572.4	235/436; 340/10.1; 340/10.2; 340/10.3; 340/10.4; 340/10.5; 375/219; 455/73
81	US 6825801 B1	20041130	21	Outer loop test generator for global positioning system	342/357.06	370/249; 375/224
82	US 6807145 B1	20041019	15	Diversity in orthogonal frequency division multiplexing systems	370/203	375/346
83	US 6782053 B1	20040824	17	Method and apparatus for transferring video frame in telecommunication system	375/240.16	348/700
84	US 6782039 B2	20040824	145	Vertical adaptive antenna array for a discrete multitone spread spectrum communications system	375/147	375/150; 375/347
85	US 6778521 B1	20040817	10	Method for using effectively the broadcast capacity in a cell	370/345	375/132; 455/434
86	US 6751251 B2	20040615	14	Fixed frequency transceiver for use in a frequency hopping system	375/133	370/459
87	US 6748013 B2	20040608	50	Receiver for wireless telecommunication stations and method	375/148	375/150
88	US 6748009 B2	20040608	49	Receiver for wireless telecommunication stations and method	375/147	375/148
89	US 6744823 B1	20040601	46	Communication system between road and vehicle	375/267	375/299; 375/347; 455/101
90	US 6744404 B1	20040601	36	Unbiased code phase estimator for mitigating multipath in GPS	342/357.12	375/148
91	US 6741643 B1	20040525	26	Asymmetric equalization system for data transmission	375/229	

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79	Gaikwad; Rohit V. et al.
80	Rodgers; James L. et al.
81	Coldiron, Sr.; Gary L. et al.
82	Weerackody; Vijitha et al.
83	Lainema; Jani
84	Alamouti; Siavash et al.
85	Korpela; Mikko et al.
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91	McGibney; Grant

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92	US 6738412 B1	20040518	34	Mobile communications device, communications system, and communications method	375/130	
93	US 6724827 B1	20040420	20	Low cost interoperable satellite digital audio radio service (SDARS) receiver adapted to receive signals in accordance with advantageous frequency plan	375/259	342/42; 370/316
94	US 6721301 B2	20040413	146	Centroid tracking for spread-spectrum communications	370/342	375/152
95	US 6711403 B1	20040323	12	Wireless network with signaling sequence exchange between a base station and a plurality of terminals	455/422.1	375/130; 455/561
96	US 6711384 B2	20040323	63	Apparatus and method for controlling communications based on moving speed	455/68	342/104; 342/108; 375/140; 375/150
97	US 6711219 B2	20040323	25	Interference cancellation in a signal	375/346	
98	US 6704366 B1	20040309	8	Time and frequency interleaving system for transmitting digital data between fixed or mobile stations	375/260	370/210; 370/343; 370/483
99	US 6697415 B1	20040224	61	Spread spectrum transceiver module utilizing multiple mode transmission	375/130	375/219; 455/88
100	US 6697350 B2	20040224	146	Adaptive vector correlator for spread-spectrum communications	370/342	375/150
101	US 6693971 B1	20040217	21	Wideband co-site interference reduction apparatus	375/285	
102	US 6680972 B1	20040120	28	Source coding enhancement using spectral-band replication	375/240	704/203
103	US 6678310 B1	20040113	51	Wireless local area network spread spectrum transceiver with multipath mitigation	375/147	
104	US 6665332 B1	20031216	14	CDMA geolocation system	375/130	
105	US 6633616 B2	20031014	32	OFDM pilot tone tracking for wireless LAN	375/326	370/206; 370/210; 375/147; 375/260; 375/349

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92	Hayakawa; Tadashi
93	Patsiokas; Stellios J. et al.
94	Ozluturk; Fatih M. et al.
95	Herrmann; Christoph et al.
96	Kubo; Tokuro et al.
97	Thomas; John K. et al.
98	Combes; Bernard et al.
99	Mahany; Ronald L.
100	Lomp; Gary R.
101	Kowalski; Anthony M.
102	Liljeryd; Lars Gustaf et al.
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106	US 6633600 B2	20031014	45	Traffic lights in a code division multiple access (CDMA) modem	375/141	370/329; 370/432; 455/450; 455/464
107	US 6628724 B2	20030930	37	Process and system for information transfer	375/259	
108	US 6625310 B2	20030923	25	Video segmentation using statistical pixel modeling	382/173	375/240.01; 375/240.29; 382/180; 382/210; 382/218; 382/308
109	US 6625229 B2	20030923	18	Pulse transmission transmitter including a higher order time derivate filter	375/295	
110	US 6621878 B2	20030916	17	Pulse transmission receiver with higher-order time derivative pulse correlator	375/316	375/340
111	US 6621858 B2	20030916	23	Flexible sliding correlator for direct sequence spread spectrum systems	375/150	
112	US 6621851 B1	20030916	180	Priority messaging method for a discrete multitone spread spectrum communications system	375/130	370/242; 375/135
113	US 6608934 B2	20030819	48	Spectral encoding of information	382/232	375/242
114	US 6606350 B2	20030812	18	Pulse transmission receiver with higher-order time derivative pulse generator	375/213	
115	US 6606349 B1	20030812	19	Spread spectrum receiver performance improvement	375/150	375/142; 375/343
116	US 6603818 B1	20030805	19	Pulse transmission transceiver architecture for low power communications	375/295	
117	US 6603801 B1	20030805	50	Spread spectrum transceiver for use in wireless local area network and having multipath mitigation	375/147	375/130
118	US 6600776 B1	20030729	144	Vertical adaptive antenna array for a discrete multitone spread spectrum communications system	375/147	375/150; 375/349

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106	Lomp; Gary et al.
107	Bannasch; Rudolf et al.
108	Lipton; Alan J. et al.
109	Dress, Jr.; William B. et al.
110	Dress, Jr.; William B. et al.
111	Sourour; Essam et al.
112	Agee; Brian G. et al.
113	Scheirer; Erik K. et al.
114	Dress, Jr.; William B. et al.
115	Kudhrethaya; Shridhara A. et al.
116	Dress, Jr.; William B. et al.
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118	Alamouti; Siavash et al.

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119	US 6600774 B1	20030729	15	System and method for communicating with plural remote transmitters	375/139	375/147
120	US 6594302 B1	20030715	13	Fixed frequency transceiver for use in a frequency hopping system	375/133	370/459
121	US 6584144 B2	20030624	143	Vertical adaptive antenna array for a discrete multitone spread spectrum communications system	375/147	375/150; 375/347
122	US 6584068 B1	20030624	36	Prototype signals construction for multicarrier transmission	370/208	370/343; 375/346
123	US 6582105 B1	20030624	26	Extendable mast arrangement having a coded remote control system	362/385	340/825.69; 362/526; 375/132; 375/133; 379/102.02
124	US 6580750 B2	20030617	16	Process for receiving spread-spectrum signals	375/150	
125	US 6563861 B1	20030513	8	Doppler spread estimation system	375/150	375/142; 375/343
126	US 6563858 B1	20030513	51	Method of performing antenna diversity in spread spectrum in wireless local area network	375/148	375/150
127	US 6549583 B2	20030415	16	Optimum phase error metric for OFDM pilot tone tracking in wireless LAN	375/260	370/206; 370/210; 375/130; 375/349
128	US 6549561 B2	20030415	32	OFDM pilot tone tracking for wireless LAN	375/137	370/206; 370/210; 375/326; 375/328
129	US 6539068 B2	20030325	14	Receiver of wideband digital signal in the presence of a narrow band interfering signal	375/346	375/152; 375/235; 375/335; 375/347
130	US 6532271 B1	20030311	17	Carrier recovery and doppler frequency estimation	375/326	342/100; 342/199; 375/345
131	US 6510175 B1	20030121	51	In-band on-channel digital broadcasting	375/216	455/143

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119	Otto; James C.
120	Lansford; James L.
121	Alamouti; Siavash et al.
122	Alard; Michel
123	Christensen; Jerry A.
124	Aue; Volker
125	Krasny; Leonid et al.
126	Fakatselis; John et al.
127	Crawford; James A.
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132	US 6480522 B1	20021112	179	Method of polling second stations for functional quality and maintenance data in a discrete multitone spread spectrum communications system	375/130	370/242; 375/135
133	US 6456827 B1	20020924	63	Apparatus and method for controlling communications based on moving speed	455/68	342/104; 342/108; 375/140; 375/150
134	US 6456645 B1	20020924	7	Digital wireless audio transmission system	375/140	332/120; 375/146; 375/147; 455/102
135	US 6456608 B1	20020924	146	Adaptive vector correlator using weighting signals for spread-spectrum communications	370/335	370/342; 375/150
136	US 6452948 B1	20020917	17	Method for baud-clock phase synchronization in a TDMA digital communications system and apparatus therefor	370/503	370/324; 370/516; 375/355
137	US 6445732 B1	20020903	16	Dynamic range reduction circuitry for a digital communications receiver	375/224	455/226.1; 455/249.1
138	US 6426977 B1	20020730	39	System and method for applying and removing Gaussian covering functions	375/259	
139	US 6415149 B1	20020702	11	Method and apparatus for handoff in a cellular radio communications system	455/442	375/347; 455/438; 455/439; 455/443
140	US 6414955 B1	20020702	33	Distributed topology learning method and apparatus for wireless networks	370/390	370/400; 375/219; 375/221
141	US 6411649 B1	20020625	16	Adaptive channel tracking using pilot sequences	375/232	370/512; 370/514; 370/520; 375/342; 375/350; 375/364; 375/368

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132	Hoole; Elliott et al.
133	Kubo; Tokuro et al.
134	Kurrat; Jens
135	Lomp; Gary R.
136	McCallister; Ronald D. et al.
137	Beamish; Norman J. et al.
138	Lee; Harry B. et al.
139	Bevan; David Damian Nicholas et al.
140	Clare; Loren P. et al.
141	Arslan; Huseyin et al.

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142	US 6377636 B1	20020423	21	Method and wireless communications system using coordinated transmission and training for interference mitigation	375/346	370/342; 375/260; 375/347
143	US 6374311 B1	20020416	17	Communication network having a plurality of bridging nodes which transmit a beacon to terminal nodes in power saving state that it has messages awaiting delivery	710/18	370/329; 370/351; 375/132; 375/220; 455/343.2; 455/517; 455/524; 709/227; 710/46; 713/320; 713/321; 713/323; 713/324
144	US 6366622 B1	20020402	66	Apparatus and method for wireless communications	375/322	329/304; 375/133; 375/222; 375/281; 375/345
145	US 6366568 B1	20020402	41	Transfer station for wireless telephone distribution system with time and space diversity transmission	370/320	370/321; 370/327; 370/330; 370/335; 370/337; 370/478; 370/479; 370/480; 370/485; 370/501; 375/141; 375/347; 455/14
146	US 6363105 B1	20020326	23	Flexible sliding correlator for direct sequence spread spectrum systems	375/150	329/358; 375/343

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142	Paulraj; Arogyaswami J. et al.
143	Mahany; Ronald L. et al.
144	Brown; Stephen Joseph et al.
145	Bolgiano; D. Ridgely et al.
146	Sourour; Essam et al.

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147	US 6362737 B1	20020326	65	Object Identification system with adaptive transceivers and methods of operation	340/572.1	340/10.1; 340/10.2; 340/10.3; 340/572.2; 340/572.4; 342/44; 375/219
148	US 6359923 B1	20020319	244	Highly bandwidth efficient communications	375/130	370/342; 375/135; 375/136
149	US 6353734 B1	20020305	33	Wireless spread spectrum ground link-based aircraft data communication system for engine event reporting	455/98	340/825.72; 340/945; 342/33; 370/316; 375/130; 455/431; 455/66.1; 701/14; 701/35
150	US 6347121 B1	20020212	21	Transmitting and receiving radio signals	375/259	375/222
151	US 6314083 B1	20011106	27	Frequency control device and method for frequency synchronization with multiplex signal by OFDM, receiving device, and communication device	370/210	375/344
152	US 6314081 B1	20011106	16	High power short message service using dedicated carrier frequency	370/203	370/512; 375/364; 375/367
153	US 6292559 B1	20010918	81	Spectral optimization and joint signaling techniques with upstream/downstream separation for communication in the presence of crosstalk	379/417	370/201; 375/296; 379/416
154	US 6272168 B1	20010807	49	Code sequence generator in a CDMA modem	375/222	370/342; 708/252
155	US 6266014 B1	20010724	44	Methods and apparatus to position a mobile receiver using downlink signals part IV	342/450	375/350; 455/456.6

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151	Kishimoto; Takurou et al.
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156	US 6263029 B1	20010717	20	Digital signal with multiple reference blocks for channel estimation, channel estimation methods and corresponding receivers	375/340	
157	US 6259737 B1	20010710	14	Method and apparatus for fast motion estimation in video coding	375/240.16	348/699
158	US 6249682 B1	20010619	37	Apparatus and method for estimating speed in mobile communication	455/522	375/130; 455/226.1; 455/226.2; 455/238.1; 455/277.1; 455/277.2
159	US 6240282 B1	20010529	31	Apparatus for performing non-linear signal classification in a communications system	455/226.1	375/285
160	US 6229843 B1	20010508	47	Pilot adaptive vector correlator	375/150	375/152
161	US 6219385 B1	20010417	13	Digital AM/FM positioning system (DAFPS)--an international positioning system	375/259	342/463; 455/456.1; 701/213
162	US 6215983 B1	20010410	113	Method and apparatus for complex phase equalization for use in a communication system	455/63.1	375/324; 375/325; 375/340; 455/303; 455/304
163	US 6208297 B1	20010327	41	Methods and apparatus to position a mobile receiver using downlink signals, part I	342/450	375/350; 455/456.6
164	US 6204812 B1	20010320	42	Methods and apparatus to position a mobile receiver using downlink signals, part II	342/457	375/350

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165	US 6173159 B1	20010109	33	Wireless spread spectrum ground link-based aircraft data communication system for updating flight management files	455/66.1	340/3.5; 340/825.72; 340/945; 342/36; 375/130; 375/219; 455/431; 455/67.11; 455/67.13; 455/67.16; 701/14; 701/29; 701/35
166	US 6167239 A	20001226	33	Wireless spread spectrum ground link-based aircraft data communication system with airborne airline packet communications	455/66.1	340/945; 375/130; 375/219; 455/431; 455/67.11; 455/67.13; 455/67.16; 701/14; 701/29
167	US 6167238 A	20001226	35	Wireless-based aircraft data communication system with automatic frequency control	455/66.1	340/3.3; 340/825.72; 340/945; 342/36; 375/130; 375/219; 455/431; 455/67.11; 455/67.13; 455/67.16; 701/14; 701/29; 701/35

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168	US 6163681 A	20001219	34	Wireless spread spectrum ground link-based aircraft data communication system with variable data rate	455/66.1	340/945; 375/219; 455/431; 455/67.11; 455/67.13; 455/67.16; 701/14; 701/29; 701/35
169	US 6160998 A	20001212	33	Wireless spread spectrum ground link-based aircraft data communication system with approach data messaging download	455/66.1	340/825.72; 340/945; 342/36; 375/219; 455/431; 455/67.11; 455/67.13; 455/67.16; 701/14; 701/29; 701/35
170	US 6148179 A	20001114	33	Wireless spread spectrum ground link-based aircraft data communication system for engine event reporting	455/66.1	340/531; 340/825.72; 340/945; 370/310; 375/130; 455/431; 455/67.11; 455/67.13; 455/67.16; 701/14; 701/35
171	US 6141332 A	20001031	32	Orthogonal code synchronization system and method for spread spectrum CDMA communications	370/335	370/208; 370/342; 375/137
172	US 6137840 A	20001024	28	Method and apparatus for performing fast power control in a mobile communication system	375/297	455/522; 455/69
173	US 6128328 A	20001003	20	Frequency hopping code division multiple access system and method	375/134	455/446; 455/561

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174	US 6128276 A	20001003	53	Stacked-carrier discrete multiple tone communication technology and combinations with code nulling, interference cancellation, retrodirective communication and adaptive antenna arrays	370/208	370/335; 375/347
175	US 6125135 A	20000926	30	System and method for demodulating global positioning system signals	375/130	342/352; 375/148; 375/150; 701/213; 701/214
176	US 6125109 A	20000926	20	Delay combiner system for CDMA repeaters and low noise amplifiers	370/315	370/334; 370/342; 375/267; 375/347; 455/101; 455/11.1; 455/136; 455/138
177	US 6118807 A	20000912	12	Methodology for received signal enhancement utilizing delay diversity processing	375/150	375/142
178	US 6101228 A	20000808	13	Receiver of wideband digital signal in the presence of a narrow band interfering signal	375/346	370/335; 375/235; 375/347
179	US 6101176 A	20000808	34	Method and apparatus for operating an indoor CDMA telecommunications system	370/335	375/346; 455/501
180	US RE36791 E	20000725	42	Location system adapted for use in multipath environments	342/450	342/463; 342/465; 375/132; 375/152; 380/34
181	US 6091780 A	20000718	21	Transmitting and receiving radio signals	375/259	332/108; 375/295; 375/316
182	US 6038275 A	20000314	24	Digital broadcasting receiver	375/371	370/516; 375/316
183	US 6034987 A	20000307	10	System for improving the quality of a received radio signal	375/133	375/267; 375/299; 455/101

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175	Woo; Richard K. T. et al.
176	Fuerter; Matthew P.
177	Warren; Bruce G. et al.
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184	US 6026123 A	20000215	22	Digital transmission system with high immunity to dynamic linear distortion	375/285	375/296; 375/346
185	US 5999562 A	19991207	27	Intelligent power management for a programmable matched filter	375/152	375/343; 455/231; 455/343.2
186	US 5991332 A	19991123	49	Adaptive matched filter and vector correlator for a code division multiple access (CDMA) modem	375/152	
187	US 5991331 A	19991123	10	System for improving the quality of a received radio signal	375/136	375/347; 375/349; 455/137; 455/276.1
188	US 5982808 A	19991109	16	System and method for communicating with plural remote transmitter	375/139	
189	US 5974092 A	19991026	14	Method and system for mobile alerting in a communication system	375/272	455/13.1
190	US 5943372 A	19990824	10	Orthogonal polarization and time varying offsetting of signals for digital data transmission or reception	375/347	370/208; 455/506
191	US 5943331 A	19990824	34	Orthogonal code synchronization system and method for spread spectrum CDMA communications	370/335	370/208; 370/342; 370/441; 375/130
192	US 5930248 A	19990727	17	Radio communication system selectively using multicast with variable offset time	370/347	370/442; 370/519; 375/347; 455/503; 455/67.16
193	US 5920278 A	19990706	57	Method and apparatus for identifying, locating, tracking, or communicating with remote objects	342/33	342/140; 342/36; 342/40; 342/463; 342/57; 375/356
194	US 5912917 A	19990615	28	Digital broadcast system	375/131	375/240; 375/260; 375/285

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195	US 5901178 A	19990504	21	Post-compression hidden data transport for video	375/240	375/240.04; 375/240.11; 375/240.18; 375/245
196	US 5881094 A	19990309	21	Frequency hopping code division multiple access system and method	375/133	370/335; 370/441; 455/447; 455/524
197	US 5878034 A	19990302	14	Spacecraft TDMA communications system with synchronization by spread spectrum overlay channel	370/321	342/357.16; 370/324; 370/350; 370/515; 375/365; 455/13.2; 455/430; 455/431; 455/67.16
198	US 5870426 A	19990209	35	Grouping of spread spectrum acknowledgement pagers to minimize transmission collisions	375/133	340/7.21; 340/7.22; 340/7.46
199	US 5862171 A	19990119	26	Radio frequency communication network having adaptive communication parameters	375/132	375/141; 375/358; 455/69
200	US 5859879 A	19990112	39	Wireless telephone distribution system with time and space diversity transmission	370/330	370/335; 375/141; 455/101
201	US 5859874 A	19990112	19	Multipath communication system optimizer	375/267	370/320; 375/211; 375/227; 455/67.11; 455/69; 455/9
202	US 5854793 A	19981229	26	GPS synchronization of CTS transmitters for an interactive network	370/503	370/517; 375/356; 725/111; 725/120; 725/62
203	US 5850415 A	19981215	48	In-band on-channel digital broadcasting	375/216	455/143; 455/74

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200	Bolgiano; D. Ridgely et al.
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204	US 5838226 A	19981117	61	Communication protocol for transmission system for controlling and determining the status of electrical devices from remote locations	340/310.01	340/10.31; 340/3.21; 340/3.51; 340/310.06; 340/425.1; 370/226; 375/211; 375/259; 455/7; 455/9
205	US 5815539 A	19980929	25	Signal timing synchronizer	375/371	370/516; 375/367
206	US 5812598 A	19980922	32	Hearing assist system employing time variant modulation transmission to hearing aid	375/259	381/312; 381/321; 381/94.1; 381/94.8
207	US 5805634 A	19980908	16	Method and apparatus for transmitting and receiving information as a power hopped direct sequence spread spectrum signal	375/146	
208	US 5805480 A	19980908	20	Rotationally predictive adaptive filter	708/322	375/232; 708/323
209	US 5799010 A	19980825	82	Code division multiple access (CDMA) communication system	370/335	370/342; 375/146; 375/149; 375/150
210	US 5796776 A	19980818	51	Code sequence generator in a CDMA modem	375/222	375/140; 380/46; 708/253; 708/254; 708/256
211	US 5796773 A	19980818	15	Compensating for multipath errors, ionospheric time delay and noise errors in differential satellite positioning systems	342/357.01	342/357.02; 375/346; 701/213
212	US 5784006 A	19980721	10	Annunciator system with mobile receivers	340/905	340/928; 340/947; 375/240; 375/241; 455/25; 455/72

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213	US 5764691 A	19980609	27	Intelligent power management for a programmable matched filter	375/152	375/343; 455/231; 455/343.2
214	US 5757854 A	19980526	47	In-band on-channel digital broadcasting	375/260	370/500; 370/527; 375/269; 375/270; 375/285
215	US 5745840 A	19980428	11	Equalization in a simulcast communication system	455/503	375/229; 455/524; 455/67.14; 455/67.16
216	US 5737363 A	19980407	15	Low power output subscriber unit	375/219	455/517; 725/131; 725/62
217	US 5737356 A	19980407	12	Spectral spreading apparatus for reducing electromagnetic radiation from a transmission line used for high data rate communication in a computerized tomography system	375/130	340/500; 340/552
218	US 5717718 A	19980210	18	Multipoint to point radiocommunications network	375/260	340/870.02
219	US 5712626 A	19980127	26	Remotely-operated self-contained electronic lock security system assembly	340/5.67	340/825.69; 340/825.72; 375/133; 380/34; 70/216; 70/278.1; 70/478
220	US 5697053 A	19971209	9	Method of power control and cell site selection	375/130	455/436; 455/452.2; 455/525
221	US 5673268 A	19970930	79	Modem resistant to cellular dropouts	370/522	375/222; 455/557
222	US 5668803 A	19970916	34	Protocol for packet data communication system	370/312	340/10.2; 370/346; 370/349; 375/141
223	US 5663990 A	19970902	38	Wireless telephone distribution system with time and space diversity transmission	375/138	375/141

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215	Gordon; Stuart Hugh
216	Dinkins; Gilbert M.
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224	US 5657343 A	19970812	21	Frequency hopping code division multiple access system and method	375/133	370/335; 370/441; 375/135; 375/136; 375/141; 455/450
225	US 5657317 A	19970812	89	Hierarchical communication system using premises, peripheral and vehicular local area networking	370/338	340/825.5; 370/311; 375/133; 455/343.1; 455/433
226	US 5652772 A	19970729	9	Method and apparatus for synchronization in digital transmissison systems of the OFDM type	375/367	375/376
227	US 5638399 A	19970610	17	Multi-beam satellite communication system with user terminal frequencies having transceivers using the same set of frequency hopping	370/324	342/353; 370/320; 370/321; 375/133; 375/285; 380/34; 455/13.2
228	US 5615229 A	19970325	33	Short range inductively coupled communication system employing time variant modulation	375/259	381/312; 381/314; 381/79; 455/41.1
229	US 5600672 A	19970204	221	Communication system	375/219	375/270; 375/301; 375/321
230	US 5583562 A	19961210	39	System and method for transmitting a plurality of digital services including imaging services	725/151	370/391; 375/240.25; 725/132; 725/133; 725/152; 725/153
231	US 5574979 A	19961112	93	Periodic interference avoidance in a wireless radio frequency communication system	455/63.1	375/356; 375/357
232	US 5574725 A	19961112	84	Communication method between a personal computer and communication module	370/426	370/471; 370/477; 375/222

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233	US 5568516 A	19961022	39	Very low power cordless headset system	375/259	375/219; 375/258; 381/163; 455/41.1
234	US 5563917 A	19961008	14	Compensation for multipath errors and ionospheric delays in differential satellite positioning systems	375/346	342/358; 370/324; 455/12.1
235	US 5561467 A	19961001	70	Receiver and channel compatible encoding/decoding system for high definition video	375/240.25	386/123; 386/131; 386/37
236	US 5553076 A	19960903	13	Method and apparatus for a wireless local area network	370/311	370/347; 370/350; 375/356
237	US 5548819 A	19960820	18	Method and apparatus for communication of information	455/59	375/349; 455/103; 455/137; 455/273
238	US 5546422 A	19960813	36	Method of transmitting low-power frequency hopped spread spectrum data	375/134	
239	US 5528621 A	19960618	35	Packet data communication system	375/133	
240	US 5521943 A	19960528	38	COFDM combined encoder modulation for digital broadcasting sound and video with PSK, PSK/AM, and QAM techniques	375/295	348/724; 370/206; 375/285; 375/296; 375/308; 455/103
241	US 5519718 A	19960521	37	Remote unit for use with remote pager	375/133	
242	US 5499266 A	19960312	37	Low-power frequency-hopped spread spectrum acknowledgement paging system	375/136	
243	US 5488631 A	19960130	39	Wireless direct-sequence spread spectrum TDMA communications system	375/145	375/146; 375/149; 380/34
244	US 5487069 A	19960123	18	Wireless LAN	370/404	370/338; 375/284; 375/348; 455/506; 455/65
245	US 5483557 A	19960109	19	Channel equalisation in particular for fading channels	375/349	375/229; 375/233

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235	Takeuchi; Yoshio et al.
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